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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/019,383      | 12/27/2001  | Gene Karl Sendelweck | PU010066            | 1424             |

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EXAMINER  
YENKE, BRIAN P

| ART UNIT | PAPER NUMBER |
|----------|--------------|
| 2614     | 5            |

DATE MAILED: 06/07/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/019,383

Applicant(s)

SENDELWECK ET AL.

Examiner

BRIAN P. YENKE

Art Unit

2614

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on PreAmendment (27 Dec 01).
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 December 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 2.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Drawings***

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: element 20 and switch S1. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "S2b" has been used to designate both a switch in IC3 and IC2. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

### ***Claim Objections***

2. Claims 9,10 and 11 objected to because of the following informalities: claims 9-11 currently depend from claim 7, the examiner presumes they should be dependent upon claim 8. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2 and 8 rejected under 35 U.S.C. 102(b) as being anticipated by  
Yoshiaki, UP 63127615.

In considering claims 1-2 and 8,

*a) the claimed a video amplifier coupled to amplify a video signal...* is met by tuner 7 which receives a broadcast signal (which is disclosed as the internal signal, see abstract) (limitation 2<sup>nd</sup> signal) where the received signal is coupled to cross talk elimination circuit 5, where the internal signal located at input terminal 20 is coupled to an amplifier/transistor Q4 and Q2 (Fig 1,2)

*b) the claimed a controllable switch...* is met where cross talk elimination circuit 5 includes switching elements which can select the internal signal via terminal 20 using switch 16 where the internal signal (2<sup>nd</sup> signal) is connected to Q4 and Q2 (Fig 1), and circuit 5 also includes a switch 17 for selecting the external signal (1<sup>st</sup> signal) (inputs 3, 4) thru terminal 21, where the external signals are coupled to signal ground as shown.

*c) the claimed wherein during a first condition...* is met where if the internal signal (2<sup>nd</sup> signal) or external signal (1<sup>st</sup> signal) is selected via switch 16 or 17, a bypass capacitor (Fig 3) interposed between the internal signal input terminal 20 or 21 to a bypass at the outside of switch 19 when Q1 or Q2 connected to terminal 16a or 17a is conducted.

Thus when either the internal or external signals are selected, that selected signal will function as a short circuit (conducting), and the non-selected signal will function as an open circuit (non-conducting).

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 3-7 and 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshiaki, UP 63127615.

In considering claims 3-6, and 9-10

Yoshiaki does not explicitly recite (as can be seen from abstract/drawings) a lowpass filter.

The use of lowpass filters in the field of video signals are notoriously well known in order to remove high frequency components which once removed from the signal provides the viewer a enhanced signal for viewing.

Thus, the examiner takes "OFFICIAL NOTICE" in regards to a system that receives a signal and low pass filters (attenuates the high frequency components) the signal to remove high frequency components/artifacts from the received signal.

Therefore, it would have been clearly obvious to one of ordinary skill in the art at the time of the invention to modify Yoshiaki which discloses the display of a received broadcast signal and external signals by low pass filtering the signals prior to display, in order to remove any undesired high frequency components in the signal and thus provide the viewer an enhanced signal for display.

In considering claims 7 and 11,

Yoshiaki does not explicitly recite (as can be seen from abstract/drawings) the DC condition from being substantially being unchanged.

The use of a filter to attenuate the AC component and maintain the DC components are notoriously well known in the art, where the filters are used to remove any non-linear components (i.e. noise) from the signal.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Yoshiaki which discloses the display of a received broadcast signal and external signals by low pass filtering the signals prior to display, in order to remove any undesired high frequency components in the signal and thus provide the viewer an enhanced signal for display.

***Conclusion***

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure—refer to cited references on attached form PTO-892.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Yenke whose telephone number is (703) 305-9871. The examiner work schedule is Monday-Thursday, 0730-1830 hrs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, John W. Miller, can be reached at (703)305-4795.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**or faxed to:**

**(703) 872-9314**

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist). Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703)305-HELP.

General information about patents, trademarks, products and services offered by the United States Patent and Trademark Office (USPTO), and other

related information is available by contacting the USPTO's General Information Services Division at:

800-PTO-9199 or 703-308-HELP

(FAX) 703-305-7786

(TDD) 703-305-7785

An automated message system is available 7 days a week, 24 hours a day providing informational responses to frequently asked questions and the ability to order certain documents. Customer service representatives are available to answer questions, send materials or connect customers with other offices of the USPTO from 8:30 a.m. - 8:00p.m. EST/EDT, Monday-Friday excluding federal holidays.

For other technical patent information needs, the Patent Assistance Center can be reached through customer service representatives at the above numbers, Monday through Friday (except federal holidays) from 8:30 a.m. to 5:00 p.m. EST/EDT.


General information brochures can also be obtained in person from the Patent Search Room located in Crystal Plaza 3, Room 1A03, 2021 South Clark Place, Arlington, VA 22202.

The Patent Electronic Business Center (EBC) allows USPTO customers to retrieve data, check the status of pending actions, and submit information and applications. The tools currently available in the Patent EBC are Patent Application Information Retrieval (PAIR) and the Electronic Filing System (EFS).



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BRIAN P. YENKE  
Primary Examiner  
Art Unit 2614



B.P.Y  
31 May 2004